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| L15 | 1 | ((detect or detecting or detector or detection) near layer) near5 (apd or pin)) and ((attenuating or attenuation) adj layer) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 15:50 |
| L16 | 24 | ((detect or detecting or detector or detection) near layer)) and ((attenuating or attenuation) adj layer) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 15:51 |
| L17 | 0 | ((detect or detection or detecting) adj layer) with (apd or pin) with photodiode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 15:52 |
| L18 | 3 | ((detect or detection or detecting) adj layer) with (apd or pin) with diode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 15:54 |
| L19 | 17 | ((detect or detection or detecting) adj layer) near5 diode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 15:57 |
| L20 | 5 | l19 and (pin or apd) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 15:56 |
| L21 | 21 | ((detect or detection or detecting) adj layer) near10 diode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 15:58 |
| L22 | 6 | l21 and (pin or apd) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:02 |
| L23 | 25771 | (layer near10 (pin or apd)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:04 |
| L24 | 17462 | (layer near5 (pin or apd)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:04 |

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| L25 | 1851 | (layer near5 (pin or apd)).clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:04 |
| L26 | 2 | (attenuate or attenuating or attenuation) near10 (layer near5 (pin or apd)).clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:05 |
| L27 | 34 | (attenuate or attenuating or attenuation) same (layer near5 (pin or apd)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:06 |
| L28 | 3 | ((attenuate or attenuating or attenuation) adj layer) same (layer near5 (pin or apd)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:06 |
| L29 | 14 | ((attenuate or attenuating or attenuation) adj layer) and (layer near5 (pin or apd)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:18 |
| L30 | 19 | ((attenuate or attenuating or attenuation) adj layer) and (layer near10 (pin or apd)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:19 |
| L31 | 4 | ((attenuate or attenuating or attenuation) adj layer) and (layer near10 (pin or apd)).clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:19 |
| L32 | 4 | ((attenuate or attenuating or attenuation) adj layer) and (layer near10 (pin or apd) near diode) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:21 |
| L33 | 4 | ((detect or detecting or detection) near layer) near10 (pin or apd) near diode) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:23 |
| L34 | 4 | ((detect or detecting or detection) near2 layer) near10 (pin or apd) near diode) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:23 |

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| L35 | 6 | ((detect or detecting or detection) near3 layer) near10 (pin or apd) near diode) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:27 |
| L36 | 266 | light with (pin or adp) with diode with layer | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:28 |
| L37 | 139 | (light near10 (pin or adp) near10 diode near10 layer) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:28 |
| L38 | 7 | (light near10 (pin or adp) near10 diode near10 layer).clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:29 |
| L39 | 2 | (light near10 (pin or adp) near10 diode near10 layer) and attenuator | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:30 |
| L40 | 2 | (light near10 (pin or adp) near10 diode near10 layer) and (variable near2 optical near2 attenuator) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:30 |
| L41 | 4 | ((pin or adp) near10 diode near10 layer) and (variable near2 optical near2 attenuator) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:31 |
| L42 | 1 | ((pin or adp) near10 diode near10 layer) and (integrated near2 variable near2 optical near2 attenuator) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:31 |
| L43 | 38 | (integrated near2 variable near2 optical near2 attenuator) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:32 |
| L44 | 4 | (integrated near2 variable near2 optical near2 attenuator) and (pin or apd) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:33 |

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| L45 | 15 | (integrated near2 variable near2 optical near2 attenuator) and (diode or photodiode) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:33 |
| L46 | 2 | (integrated near2 variable near2 optical near2 attenuator) same (diode or photodiode) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:34 |
| L47 | 41 | (integrated near2 variable near2 optical near2 (attenuating or attenuation or attenuator)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:34 |
| L48 | 25 | (integrated near2 variable near2 optical near2 (attenuating or attenuation or attenuator)).ti,ab, clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:35 |
| L49 | 10 | (integrated near2 variable near2 optical near2 (attenuating or attenuation or attenuator)).ti,ab, clm. and (diode or photodiode) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:37 |
| L50 | 11057 | (attenuating or attenuation or attenuator).ti,ab,clm. and (diode or photodiode) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:38 |
| L51 | 5851 | (attenuating or attenuation or attenuator).ti,ab,clm. and (diode or photodiode) and (detect or detecting or detector or detecion) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:38 |
| L52 | 2079 | (attenuating or attenuation or attenuator).ti,ab,clm. and (diode or photodiode) near10 (detect or detecting or detector or detecion) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:38 |
| L53 | 2079 | (attenuating or attenuation or attenuator).ti,ab,clm. and ((diode or photodiode) near10 (detect or detecting or detector or detecion)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:38 |
| L54 | 636 | (attenuating or attenuation or attenuator).ti,ab,clm. and ((diode or photodiode) near10 (detect or detecting or detector or detecion)).ti,ab,clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:38 |

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| L55 | 146 | (attenuating or attenuation or attenuator).ti,ab,clm. and (light near10 (diode or photodiode) near10 (detect or detecting or detector or detecion)).ti,ab,clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:38 |
| L56 | 80 | (attenuating or attenuation or attenuator).clm. and (light near10 (diode or photodiode) near10 (detect or detecting or detector or detecion)).ti,ab,clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:39 |
| L57 | 66 | (attenuating or attenuation or attenuator).clm. and (light near10 (diode or photodiode) near10 (detect or detecting or detector or detecion)).clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:39 |
| L58 | 5 | (attenuating or attenuation or attenuator).clm. same (light near10 (diode or photodiode) near10 (detect or detecting or detector or detecion)).clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:40 |
| L59 | 5 | (attenuating or attenuation or attenuator) same (light near10 (diode or photodiode) near10 (detect or detecting or detector or detecion)).clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:40 |
| L60 | 228 | (attenuating or attenuation or attenuator) same (light near10 (diode or photodiode) near10 (detect or detecting or detector or detecion)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:40 |
| L61 | 85 | (attenuating or attenuation or attenuator) with (light near10 (diode or photodiode) near10 (detect or detecting or detector or detecion)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:40 |
| L62 | 423 | (attenuating or attenuation or attenuator) with ((diode or photodiode) near10 (detect or detecting or detector or detecion)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:40 |
| L63 | 45 | (attenuating or attenuation or attenuator) with ((diode or photodiode) near10 (detect or detecting or detector or detecion)).clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:41 |
| L64 | 0 | (attenuating or attenuation or attenuator) with ((diode or photodiode) near10 (detect or detecting or detector or detecion) with layer).clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:41 |

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| L65 | 7 | (attenuating or attenuation or attenuator) with ((diode or photodiode) near10 (detect or detecting or detector or detecion) with layer) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:42 |
| L66 | 9037 | (attenuating or attenuation or attenuator) with layer | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:42 |
| L67 | 2057 | (attenuating or attenuation or attenuator) with layer with light | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:42 |
| L68 | 46 | (attenuating or attenuation or attenuator) with layer with light with (diode or photodiode) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:44 |
| L69 | 4 | (attenuating or attenuation or attenuator).clm. with layer with light with (diode or photodiode) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:44 |
| L70 | 6 | (attenuating or attenuation or attenuator).clm. same layer with light with (diode or photodiode) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:45 |
| L71 | 6 | (attenuating or attenuation or attenuator).clm. same layer same light with (diode or photodiode) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:45 |
| L72 | 6 | (attenuating or attenuation or attenuator).clm. same layer same light same (diode or photodiode) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:45 |
| L73 | 960 | ((attenuating or attenuation or attenuator) near10 layer).clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:45 |
| L74 | 244 | ((attenuating or attenuation or attenuator) near10 layer).clm. and ((attenuating or attenuation or attenuator) near10 layer).ab. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:46 |

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| L75 | 2 | ((attenuating or attenuation or attenuator) near10 layer).clm. and ((attenuating or attenuation or attenuator) near10 layer).ab. and (diode or photodiode).clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:47 |
| L76 | 6 | ((attenuating or attenuation or attenuator) near10 layer).clm. and ((detection or detector or detecting) adj layer).clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:50 |
| L77 | 0 | ((attenuator) near10 layer).clm. and ((detection or detector or detecting) adj layer).clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:50 |
| L78 | 0 | ((attenuator)).clm. and ((detection or detector or detecting) adj layer).clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:50 |
| L79 | 2 | ((attenuator)) and ((detection or detector or detecting) adj layer).clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:53 |
| L80 | 10354 | ((diode or photodiode) near2 layer) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:53 |
| L81 | 13 | ((diode or photodiode) near2 layer) and ((attenuator or attenuating or attenuation) adj layer) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:55 |
| L82 | 3 | ((diode or photodiode) adj layer) and ((attenuator or attenuating or attenuation) adj layer) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:56 |
| L83 | 59 | ((diode or photodiode) adj layer) and ((attenuator or attenuating or attenuation)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:56 |
| L84 | 2 | ((diode or photodiode) adj layer) with ((attenuator or attenuating or attenuation)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:56 |

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| L85 | 10 | ((diode or photodiode) near layer) with ((attenuator or attenuating or attenuation)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:56 |
| L86 | 1 | ((((diode or photodiode) near2 layer) with ((attenuator or attenuating or attenuation))))).clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:57 |
| L87 | 6 | ((((diode or photodiode) near2 layer) with ((attenuator))) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:57 |
| L88 | 10 | ((((diode or photodiode) near2 layer) same ((attenuator))) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:58 |
| L89 | 0 | ((((diode or photodiode) adj layer) same ((attenuator))) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 16:58 |
| L90 | 8 | ((((diode or photodiode) adj layer) and ((attenuator))) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 17:00 |
| L91 | 68 | ((((diode or photodiode) near2 layer) and ((attenuator))) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 17:00 |
| L92 | 14 | ((((diode or photodiode) near2 layer).clm. and ((attenuator))) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 17:00 |
| L93 | 4 | ((((diode or photodiode) near2 layer).clm. and ((attenuator).clm.)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 17:03 |
| L94 | 5 | ((diode or photodiode) near2 layer).clm. and (attenuating near2 layer) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/27 17:03 |